

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Date Submitted: November 17, 2004

(use as many sheets as necessary)

Complete if Known

| | |
|------------------------|---------------------|
| Application Number | 10/602,021 |
| Filing Date | 06/24/2003 |
| First Named Inventor | Himanshu BRAHMBHATT |
| Group Art Unit | 1744 |
| Examiner Name | Not yet assigned |
| Attorney Docket Number | 060348-0104 |

Sheet

1

of

1

U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-----------------------|--------------------------|----------------------|---|--|--|--|
| | | Number | Kind Code ² (if known) | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Documents | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|-----------------------|--------------------------|-------------------------|---------------------|--------------------------------------|---|--|--|----------------|
| | | Office ³ | Number ⁴ | Kind Code ⁵ (if known) | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ |
|-----------------------|--------------------------|--|----------------|
| LBL | B1 | International Search Report | |
| LBL | B2 | Alice A. CHRISTEN et al., "Rapid isolation of Escherichia coli minicells by glass-fiber filtration: study of plasmid-coded polypeptides", Gene 23, (1983) pp. 195-198. | |
| LBL | B3 | H. STIEGLITZ et al., "Cloning, Sequencing, and Expression in Ficoll-Generated Minicells of an Escherichia coli Heat-Stable Enterotoxin Gene", PLASMID 20, 42-53 (1988). | |
| | | | |
| | | | |

Examiner
Signature

04/30/2005

Date
Considered

04/30/2006

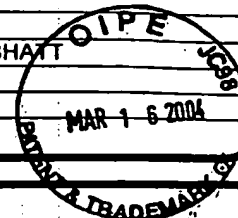
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | | | | | | | | | | | | | |
|--|---------------------|----|---|---|--|--------------------|------------|-------------|------------|----------------------|---------------------|----------------|------|---------------|------------|------------------------|-------------|
| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: March 16, 2004 (use as many sheets as necessary) | | | | Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/602,021</td> </tr> <tr> <td>Filing Date</td> <td>06/24/2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Himanshu BRAHMBHATT</td> </tr> <tr> <td>Group Art Unit</td> <td>1744</td> </tr> <tr> <td>Examiner Name</td> <td>Unassigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>060348-0104</td> </tr> </table> | | Application Number | 10/602,021 | Filing Date | 06/24/2003 | First Named Inventor | Himanshu BRAHMBHATT | Group Art Unit | 1744 | Examiner Name | Unassigned | Attorney Docket Number | 060348-0104 |
| Application Number | 10/602,021 | | | | | | | | | | | | | | | | |
| Filing Date | 06/24/2003 | | | | | | | | | | | | | | | | |
| First Named Inventor | Himanshu BRAHMBHATT | | | | | | | | | | | | | | | | |
| Group Art Unit | 1744 | | | | | | | | | | | | | | | | |
| Examiner Name | Unassigned | | | | | | | | | | | | | | | | |
| Attorney Docket Number | 060348-0104 | | | | | | | | | | | | | | | | |
| Sheet | 1 | of | 3 | | | | | | | | | | | | | | |



| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|--------------------------|----------------------|---|--|--|--|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number | Kind Code ² (if known) | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|-----------------------|-------------------------|---------------------|--------------------------------------|--|---|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Documents | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Office ³ | Number ⁴ | Kind Code ⁵ (if known) | | | | |
| IBL | A1 | WO | 03/033519 | A2 | BRAHMBHATT, Himanshu | 04-24-2003 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|--------------------------|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ |
| | A2 | BRAHMBHATT, Cloning and Molecular Characterization of the rfb Gene Cluster from Salmonella typhimurium LT2, Thesis, University of Adelaide, S. Australia, July 1987 | |
| | A3 | Britton et al., "Characterization of a prokaryotic SMC protein involved in chromosome partitioning," Genes Dev., 1998, pp. 1254-1259, Vol. 12, Cold Spring Harbor Laboratory Press | |
| | A4 | Clark-Curtiss et al., Analysis of Recombinant DNA Using Escherichia coli Minicells, Methods in Enzymology, 1983, pp. 347-363, Vol. 101, Academic Press, NYC, USA | |
| | A5 | De Boer et al., Roles of MinC and MinD in the site-Specific Septation Block Mediated by the MinCDE System of Escherichia coli, Journal of Bacteriology, Jan. 1992, pp. 63-70, Vol. 174, No. 1, American Society for Microbiology | |
| | A6 | Dorward et al., Export and Intercellular Transfer of DNA via Membrane Blebs of Neisseria gonorrhoeae, Journal of Bacteriology, May 1989, pp. 2499-2505, Vol. 171, No. 5, American Society for Microbiology | |
| | A7 | Forbes, Crossflow Microfiltration, Australian Journal of Biotechnology, June 1987, pp. 30-33, Vol. 1, No. 1, National Library of Medicine | |

| | | | |
|-----------------------|----------------------|--------------------|------------|
| Examiner Signature | /L Blaine Lankford / | Date Considered | 04/30/2006 |
|-----------------------|----------------------|--------------------|------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | |
|---|---|--------------------------|---------------------|
| Substitute for form 1449B/PTO | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: March 16, 2004 (use as many sheets as necessary) | | Application Number | 10/602,021 |
| | | Filing Date | 06/24/2003 |
| | | First Named Inventor | Himanshu BRAHMBHATT |
| | | Group Art Unit | 1744 |
| | | Examiner Name | Unassigned |
| Sheet | 2 | of | 3 |
| | | Attorney Docket Number | 060348-0104 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| LBL | A8 | Frazer et al., Production, Properties and Utility of Bacterial Minicells, Current Topics in Microbiology and Immunology, 1975, pp. 1-84, 69: 1, National Library of Medicine | |
| | A9 | Harlow et al., Cloning and Characterization of the <i>gsk</i> Gene Encoding Guanosine Kinase of <i>Escherichia coli</i> , Journal of Bacteriology, Apr. 1995, pp. 2236-2240, Vol. 177, No. 8, American Society for Microbiology | |
| | A10 | Harry, Bacterial cell division: regulating Z-ring formation, Molecular Microbiology, 2001, pp. 795-803, Vol. 40(4), Blackwell Science Ltd. | |
| | A11 | Hiraga et al., Chromosome Partitioning in <i>Escherichia coli</i> : Novel Mutants Producing Anucleate Cells, Journal of Bacteriology, Mar. 1989, pp. 1496-1505, Vol. 171, No. 3, American Society for Microbiology | |
| | A12 | Hu et al., Topological regulation of cell division in <i>Escherichia coli</i> involves rapid pole to pole oscillation of the division inhibitor MinC under the control of MinD and MinE, Molecular Microbiology, 1999, pp. 82-90, Vol. 34(1), Blackwell Science Ltd. | |
| | A13 | Ireton et al., <i>spo0J</i> Is Required for Normal Chromosome Segregation as well as the Initiation of Sporulation in <i>Bacillus subtilis</i> , Journal of Bacteriology, Sept. 1994, pp. 5320-5329, Vol. 176, No. 17, American Society for Microbiology | |
| | A14 | Katsui et al., Heat-Induced Blebbing and Vesiculation of the Outer Membrane of <i>Escherichia coli</i> , Journal of Bacteriology, Sept. 1982, pp. 1523-1531, Vol. 151, No. 3, American Society for Microbiology | |
| | A15 | Kihara et al., Analysis of a FlhM-FlhN Flagellar Switch Fusion Mutant of <i>Salmonella typhimurium</i> , Journal of Bacteriology, Aug. 1996, pp. 4582-4589, Vol. 178, No. 15, American Society for Microbiology | |
| | A16 | Levin et al., Identification of <i>Bacillus subtilis</i> Genes for Septum Placement and Shape Determination, Journal of Bacteriology, Nov. 1992, pp. 6717-6728, Vol. 174, No. 21, American Society for Microbiology | |
| | A17 | Matsuzaki et al., Interactions of an antimicrobial peptide, magainin 2, with outer and inner membranes of Gram-negative bacteria, BBA, 1997, pp. 119-130, Vol. 1327, Elsevier Science B.V. | |

| | | | |
|--------------------|----------------------|-----------------|------------|
| Examiner Signature | /L Blaine Lankford / | Date Considered | 04/30/2006 |
|--------------------|----------------------|-----------------|------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | |
|---|---|--------------------------|---------------------|
| Substitute for form 1449B/PTO | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: March 16, 2004 (use as many sheets as necessary) | | Application Number | 10/602,021 |
| | | Filing Date | 06/24/2003 |
| | | First Named Inventor | Himanshu BRAHMBHATT |
| | | Group Art Unit | 1744 |
| | | Examiner Name | Unassigned |
| Sheet | 3 | of | 3 |
| | | Attorney Docket Number | 060348-0104 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ |
| LBL ↓ | A18 | Okada et al., Possible function of the cytoplasmic axial filaments in chromosomal segregation and cellular division of <i>Escherichia coli</i> , Science Progress, 1993/94, pp. 253-264, Vol. 77(3/4), | |
| | A19 | Okada et al., Cytoplasmic Axial Filaments in <i>Escherichia coli</i> Cells: Possible Function in the Mechanism of Chromosome Segregation and Cell Division, Journal of Bacteriology, Feb. 1994, pp. 917-922, Vol. 176, No. 3, American Society for Microbiology | |
| | A20 | Raskin et al., MinDE-Dependent Pole-to-Pole Oscillation of Division Inhibitor MinC in <i>Escherichia coli</i> , Journal of Bacteriology, Oct. 1999, pp. 6419-6424, Vol. 181, No. 20, American Society for Microbiology | |
| | A21 | Reeve, Use of Minicells for Bacteriophage-Directed Polypeptide Synthesis, Methods in Enzymology, 1979, pp. 493-503, Vol. 68, Academic Press, NYC, USA | |
| | A22 | Reeve et al., Bacteriophage SPO1-Induced Macromolecular Synthesis in Minicells of <i>Bacillus subtilis</i> , Journal of Bacteriology, June 1975, pp. 1308-1316, Vol. 15, No. 6, American Society for Microbiology | |
| | A23 | Sancar et al., Simple Method for Identification of Plasmid-Coded Proteins, Journal of Bacteriology, Jan. 1979, pp. 692-693, Vol. 137, No. 1 | |
| | A24 | Stewart et al., Genetic and Morphological Characterization of an <i>Escherichia coli</i> Chromosome Segregation Mutant, Journal of Bacteriology, July 1992, pp. 4513-4516, Vol. 174, No. 13, American Society for Microbiology | |
| | A25 | Wachi et al., New <i>mre</i> Genes <i>mreC</i> and <i>mreD</i> , Responsible for Formation of the Rod Shape of <i>Escherichia coli</i> Cells, Journal of Bacteriology, Dec. 1989, pp. 6511-6516, Vol. 171, No. 12, American Society for Microbiology | |

| | | | |
|--------------------|----------------------|-----------------|------------|
| Examiner Signature | /L Blaine Lankford / | Date Considered | 04/30/2006 |
|--------------------|----------------------|-----------------|------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.